

Environmental Protection Agency

§ 421.156

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total beryllium carbonate produced as beryllium	
Beryllium	383.760	173.160
Chromium (Total)	173.160	70.200
Copper	599.040	285.480
Cyanide (Total)	93.600	37.440
Ammonia (as N)	62384.400	27424.800
Fluoride	16380.000	9313.200
Total Suspended Solids	7020.000	5616.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(o) Bertrandite Ore Leaching Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	1.239	0.559
Chromium (Total)	0.559	0.227
Copper	1.934	0.922
Cyanide (Total)	0.302	0.121
Ammonia (as N)	201.416	88.545
Fluoride	52.885	30.069
Total Suspended Solids	22.665	18.132
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(p) Bertrandite Ore Countercurrent and Decantation (CCD) Scrubber.

NSPS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	0.083	0.037
Chromium (Total)	0.037	0.015
Copper	0.129	0.062
Cyanide (Total)	0.020	0.008
Ammonia (as N)	13.463	5.919
Fluoride	3.535	2.010
Total Suspended Solids	1.515	1.212
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

[50 FR 38346, Sept. 20, 1985, as amended at 55 FR 31699, Aug. 3, 1990]

§ 421.155 [Reserved]

§ 421.156 Pretreatment standards for new sources.

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources. The mass of wastewater pollutants in primary beryllium process wastewater introduced into a POTW shall not exceed the following values:

(a) Solvent extraction raffinate from bertrandite ore.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium carbon- ate produced from bertrandite ore as beryl- lium	
Beryllium	1,842.000	831.000
Chromium (total)	831.000	336.900
Copper	2,875.000	1,370.000
Cyanide (total)	449.200	179.700
Ammonia (as N)	299,400.000	131,600.000
Fluoride	78,610.000	44,700.000

(b) Solvent extraction raffinate from beryl ore.

PSNS FOR THE PRIMARY BERYLLIUM SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium carbon- ate produced from beryl ore as beryllium	
Beryllium	180.4	81.4
Chromium (total)	81.4	33.0
Copper	281.6	134.2
Cyanide (total)	44.0	17.6
Ammonia (as N)	29,330.0	12,890.0
Fluoride	7,700.0	4,378.0

(c) Beryllium carbonate filtrate.

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium car- bonate produced as be- ryllium	
Beryllium	175.900	79.370
Chromium (total)	79.370	32.180
Copper	274.600	130.800
Cyanide (total)	42.900	17.160
Ammonia (as N)	28,590.000	12,570.000
Fluoride	7,508.000	4,269.000

(d) Beryllium Hydroxide Filtrate.

NSPS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced as be- ryllium	
Beryllium	111.510	50.320
Chromium (Total)	50.320	20.400
Copper	174.080	82.960
Cyanide (Total)	27.200	10.880
Ammonia (as N)	18128.800	7969.600
Fluoride	4760.000	2706.400

(e) Beryllium oxide calcining furnace
wet air pollution control.

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium oxide produced	
Beryllium	216.20	97.57
Chromium (total)	97.57	39.56
Copper	337.50	160.90
Cyanide (total)	52.74	21.10
Ammonia (as N)	35,150.00	15,450.00
Fluoride	9,230.00	5,248.00

(f) Beryllium hydroxide supernatant

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryllium hy- droxide produced from scrap and residues as beryllium	
Beryllium	188.6	85.1
Chromium (total)	85.1	34.5
Copper	294.4	140.3
Cyanide (total)	46.0	18.4
Ammonia (as N)	30,660.0	13,480.0
Fluoride	160,308.0	71,201.0

(g) Process water.

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of beryllium peb- bles produced	
Beryllium	143.30	64.68
Chromium (total)	64.68	26.22
Copper	223.70	106.60
Cyanide (total)	34.96	13.98
Ammonia (as N)	23,300.00	10,240.00
Fluoride	6,118.00	3,479.00

(h) Fluoride furnace scrubber.

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of beryllium peb- bles produced	
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000

(i) Chip treatment wastewater.

Environmental Protection Agency

\$ 421.156

**PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of beryllium scrap chips treated	
Beryllium	6.355	2.868
Chromium (total)	2.868	1.163
Copper	9.920	4.728
Cyanide (total)	1.550	0.620
Ammonia (as N)	1,033.000	454.200
Fluoride	271.300	154.200

(j) Beryllium pebble plant area vent
wet air pollution control

**PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg pounds per million pounds of beryllium peb- bles produced	
Beryllium	0.000	0.000
Chromium (total)	0.000	0.000
Copper	0.000	0.000
Cyanide (total)	0.000	0.000
Ammonia (as N)	0.000	0.000
Fluoride	0.000	0.000

(k) Beryl Ore Gangue Dewatering.

**PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium	0.855	0.386
Chromium (Total)	0.386	0.156
Copper	1.335	0.636
Cyanide (Total)	0.209	0.083
Ammonia (as N)	139.032	61.120
Fluoride	36.505	20.756

(l) Bertrandite Ore Gangue
Dewatering.

**PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of bertrandite ore processed	
Beryllium	2.185	0.986
Chromium (Total)	0.986	0.400
Copper	3.411	1.626
Cyanide (Total)	0.533	0.213
Ammonia (as N)	355.245	156.169
Fluoride	93.275	53.034

(m) Beryl Ore Processing.

**PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of beryl ore processed	
Beryllium	5.988	2.702
Chromium (Total)	2.702	1.095
Copper	9.348	4.455
Cyanide (Total)	1.461	0.584
Ammonia (as N)	973.490	427.956
Fluoride	255.605	145.330

(n) Aluminum Iron Sludge (AIS) Area
Wastewater.

**PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of total beryllium carbonate produced as beryllium	
Beryllium	383.760	173.160
Chromium (Total)	173.160	70.200
Copper	599.040	285.480
Cyanide (Total)	93.600	37.440
Ammonia (as N)	62384.400	27424.800
Fluoride	16380.000	9313.200

(o) Bertrandite Ore Leaching Scrub-
ber.

§ 421.157

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	1.239	0.559
Chromium (Total)	0.559	0.227
Copper	1.934	0.922
Cyanide (Total)	0.302	0.121
Ammonia (as N)	201.416	88.545
Fluoride	52.885	30.069

(p) Bertrandite Ore Countercurrent
and Decantation (CCD) Scrubber.

PSNS FOR THE PRIMARY BERYLLIUM
SUBCATEGORY

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg of bertrandite ore processed	
Beryllium	0.083	0.037
Chromium (Total)	0.037	0.015
Copper	0.129	0.062
Cyanide (Total)	0.020	0.008
Ammonia (as N)	13.463	5.919
Fluoride	3.535	2.010

[50 FR 38346, Sept. 20, 1985, as amended at 55
FR 31700, Aug. 3, 1990]

§ 421.157 [Reserved]

**Subpart P—Primary and Sec-
ondary Germanium and
Gallium Subcategory**

SOURCE: 50 FR 38350, Sept. 20, 1985, unless
otherwise noted.

**§ 421.180 Applicability: Description of
the primary and secondary germa-
nium and gallium subcategory.**

The provisions of this subpart are ap-
plicable to discharges resulting from
the production of germanium or
gallium from primary and secondary
germanium and gallium facilities.

§ 421.181 Specialized definitions.

For the purpose of this subpart the
general definitions, abbreviations and

40 CFR Ch. I (7–1–00 Edition)

methods of analysis set forth in 40 CFR
part 401 shall apply to this subpart.

**§ 421.182 Effluent limitations guide-
lines representing the degree of ef-
fluent reduction attainable by the
application of the best practicable
control technology currently avail-
able.**

Except as provided in 40 CFR 125.30
through 125.32, any existing point
source subject to this subpart shall
achieve the following effluent limita-
tions representing the degree of efflu-
ent reduction attainable by the appli-
cation of the best practicable tech-
nology currently available:

(a) Still liquor.

**BPT LIMITATIONS FOR THE PRIMARY AND SEC-
ONDARY GERMANIUM AND GALLIUM SUB-
CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic	131.700	58.590
Lead	26.460	12.600
Zinc	91.980	38.430
Fluoride	2,205.000	1,254.000
Total suspended solids	2,583.000	1,229.000
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(b) Chlorinator wet air pollution con-
trol.

**BPT LIMITATIONS FOR THE PRIMARY AND SEC-
ONDARY GERMANIUM AND GALLIUM SUB-
CATEGORY**

Pollutant or pollutant property	Maximum for any 1 day	Maximum for monthly average
	mg/kg (pounds per million pounds) of germanium chlorinated	
Arsenic	27.530	12.250
Lead	5.531	2.634
Zinc	19.230	8.034
Fluoride	461.000	262.100
Total suspended solids	540.000	256.800
pH	(¹)	(¹)

¹ Within the range of 7.5 to 10.0 at all times.

(c) Germanium hydrolysis filtrate.